

REMARKS

Claims 11-19 are pending and at issue in this application. Of these, claims 11, 14, 15, and 18 are in independent form, and each of these claims have been amended. No new matter has been introduced.

Claims 11 and 15 were rejected under 35 U.S.C. §102(e) as being anticipated by *Portin* (US Patent 5,794,159). The Applicant respectfully traverses these rejections. *Portin* does not disclose or suggest all of the elements recited in claims 11 and 15. Specifically, *Portin* does not disclose “a first transmission antenna” and “a second transmission antenna” and “a first reception antenna” and “a second reception antenna” wherein each of the first and second transmission and reception antennas are physically separate as recited in claims 11 and 15.

Portin discloses a dual band transmitter/receiver (transceiver) portion of mobile phone 10. The signal for Band1 is received by the antenna 12, where the antenna 12 is shown as two antennas 12a and 12b which can be switched by switch 13 when the transceiver band is changed. Alternately, *Portin* discloses the use of a single wideband antenna for eliminating switch 13 (col. 3, line 63 – col. 4, line 5). As is shown in FIG. 3, only two antennas are disclosed in *Portin*, wherein each antenna operates as a transceiver in its respective frequency. As such, this configuration requires a first and second duplexer to channel signals to each transceiver (col. 2, lines 39-42). In contrast, the configuration claimed in the present application provides an antenna array where such duplexers are obviated (see amended specification page 4). Accordingly, favorable reconsideration is respectfully requested.

Similarly, claim 14 was rejected under 35 U.S.C. §103 as being unpatentable over *Portin* (US Patent 5,794,159) in view of *Miller* (US Patent 6,396,365). The Applicant respectfully traverses this rejection. *Portin* and *Miller*, alone or in combination, do not disclose or suggest all of the elements recited in claim 14. Specifically, *Portin* and *Miller* do not disclose “a first transmission antenna” and “a second transmission antenna” and “a first reception antenna” and “a second reception antenna,” wherein each of the first and second transmission and reception antennas are physically separate as recited in claim 14.

Again, Figure 3 of *Portin* (cited by the Examiner) only shows two antennas, not four. There is no mention anywhere in *Portin* of using four separate antennas, wherein two of the antennas are associated with transmit functions and two of the antennas are associated with receive functions. In addition, there is no mention anywhere in *Miller* of using four different antennas, wherein two of the antennas are associated with transmit functions and two of the antennas are associated with receive functions (e.g., see the two antennas of Figure 1) Accordingly, favorable reconsideration is respectfully requested.

Claim 18 was rejected under 35 U.S.C. §102(e) as being anticipated by *Kiiski* (US Patent 6,430,421). The Applicant respectfully traverses this rejection. *Kiiski* does not disclose or suggest all of the elements recited in claim 18 as amended. Specifically, *Kiiski* does not disclose an “antenna array for operating a mobile station within different mobile radio systems to which a different frequency range is in each case allocated” as recited in claim 18.

Kiiski discloses a TDMA system where one timeslot the base station has four independent transmitting and receiving branches. In FIG. 8a, two parallel receiving branches are connected to one signal processing unit 801. These receiving branches are tuned to one radio frequency (f1). The other two parallel receiving branches are connected to a second signal processing unit 802 and tuned to a second radio frequency (f2). Two parallel transmitting branches are connected to one signal processing unit 803, where the transmitting branches are tuned to radio frequency f1. The other two parallel transmitting branches are connected to a second signal processing unit 804 and tuned to radio frequency f2 (col. 8, lines 1-16). In other words, *Kiiski* does not teach an antenna array for operating a mobile station within different mobile radio systems to which a different frequency range is in each case allocated, since *Kiiski* teaches the use of one mobile radio system (TDMA) at a time. Accordingly, favorable reconsideration is respectfully requested.

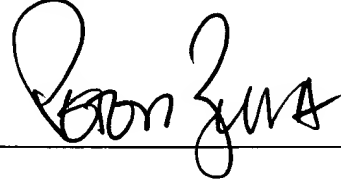
All of the remaining claims at issue depend directly or indirectly from the above-discussed independent claims. Accordingly, all of these dependant claims are allowable for at least the reasons discussed above, and favorable reconsideration is respectfully requested.

For at least these reasons, the Applicant submits that all of the rejections are improper and should be withdrawn. An early Notice of Allowance is earnestly requested. If the Examiner would like to discuss anything associated with the advancement of this patent application, s/he is encouraged to call the attorney indicated below. If any fees are due in connection with this application, the Examiner is authorized to deduct such fees from deposit account no. 02-1818. If such a deduction is made, please indicate the attorney docket number (112740-486) on the account statement.

Respectfully submitted,

BELL, BOYD & LLOYD LLC

BY

A handwritten signature in black ink, appearing to read "Peter Zura", written over a horizontal line.

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Dated: July 11, 2005